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Search History

DATE: Tuesday, January 18, 2005   <u>Printable Copy</u>   <u>Create Case</u>

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DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L33	5740457.pn.	2	L33
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L31	l30 and (tasks or duties or jobs)	31	L31
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L29	L25 and (business or organization or company or corporation)	14	L29
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L27	L25 and (tasks or duties or jobs or titles or positions)	10	L27
L26	L25 and (tasks or duties or jobs)	8	L26
L25	L21 and (multilevel or multi-level or multi-tier or multitier)	17	L25
L24	L21 and (multilevel or multi-level or multi-tier or multitier) near organization	0	L24
L23	L21 and (multilevel or multi-level or multi-tier or multitier) near business near organization	0	L23
L22	L21 and (multilevel or multi-level) near business near organization	0	L22
L21	("financial service organization" or "fso")	1897	L21

L20	L18 and process$	3343	L20
L19	L18 and display$	2680	L19
L18	relationship near objects	4092	L18
L17	711.clas.	24026	L17
L16	711/217	681	L16
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L12	715.clas.	20232	L12
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L31: Entry 27 of 31   File: USPT   May 21, 2002
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US-PAT-NO: 6393386
DOCUMENT-IDENTIFIER: US 6393386 B1

TITLE: Dynamic modeling of complex networks and prediction of impacts of faults
therein

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zager; David	Chappaqua	NY		
Kostes; Robert	Brooklyn	NY		

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Visual Networks Technologies, Inc.	Rockville	MD			02

APPL-NO: 09/ 048025   [PALM]
DATE FILED: March 26, 1998

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US-CL-CURRENT: 703/25; 370/254, 703/27, 709/223, 713/201

FIELD-OF-SEARCH: 395/500.05, 395/500.34, 395/500.44, 709/224, 709/300, 709/223,
709/227, 709/228, 703/25, 703/27, 370/254, 713/201

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	4985857	January 1991	Banpai et al.	364/551.01
☐	5195095	March 1993	Shah	371/15.1
☐	5295244	March 1994	Dev et al.	395/161
☐	5309448	May 1994	Bouloutas et al.	371/29.1
☐	5317568	May 1994	Bixby et al.	370/85.6
☐	5517622	May 1996	Ivanoff et al.	395/200.13
	5528516	June 1996	Yemini et al.	364/551.01

☐

☐	5608720	March 1997	Biegel et al.	370/249
☐	5661668	August 1997	Yemini et al.	364/550
☐	5748896	May 1998	Daly et al.	395/200.53
☐	5799153	August 1998	Blau et al.	395/200.53
☐	5854750	December 1998	Phillips et al.	364/478.04
☐	5918051	June 1999	Savitzky et al.	395/683
☐	5951680	September 1999	Redlin et al.	713/1

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"HP Open View Network Node Manager", Administrator's Reference, Hewlett Packard, Manual Part No. J2316-900005, 12/93.
A.T. Bouloutas, et al, "Alarm Correlation and Fault Identification in Communication Networks", IEEE Transactions, vol. 42, No. 2/3/4, Feb./Mar./Apr. 1994.
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S. Mark Klerer, "The OSI Management Architecture: an Overview", IEEE Network, vol. 2, No. 2, 3/88.
Mark T. Sutter et al., Designing Expert Systems for Real-Time Diagnosis of Self-Correcting Networks, IEEE Network, 9/98.
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International Communication Union, CCITT The International Telegraph and Telephone Consultative Committee X.832, "Data Communication Networks", 1/92.

ART-UNIT: 2123

PRIMARY-EXAMINER: Teska; Kevin J.

ASSISTANT-EXAMINER: Phan; T.

ABSTRACT:

A method and system are provided for use in administering a complex system, such as a distributed computing ensemble. A model of the system being administered is prepared, preferably during runtime of the invention, by a combination of autodiscovery processes and manual input of information as needed. The model represents not only the resources found in the administered system, but also the service-relationships among those resources. The system administrator also can define elements in the model corresponding to arbitrary groupings of already-existing parts of the model. Software agents, which can be reconfigured, started and terminated as desired during runtime, report changes in state of the managed resources to the model, which updates itself and explores portions of the model adjacent (in terms of the service relationships) to the affected resource(s). Clusters of neighboring state-changes that have a logical relation to each other are grouped together as an alarm, and are preferably represented in a graphical display. Any root-cause event of this type is marked as such, and any portions of the modeled system being (or logically likely to be) affected by the changes are

also identified and displayed.

17 Claims, 32 Drawing figures

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